

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-13 (canceled).

14 (previously presented). A pharmaceutical composition comprising at least one CD23-binding peptide, wherein said peptide is selected from the group consisting of:

Phe-His-Glu-Asn-Trp-Pro-Ser	(SEQ ID NO:1);
Phe-His-Glu-Phe-Trp-Pro-Thr	(SEQ ID NO:2);
Phe-His-Ser-Gln-Trp-Pro-Asn	(SEQ ID NO:3);
Phe-His-Glu-Asn-Trp-Pro	(SEQ ID NO:4);
Phe-His-Glu-Asn-Trp-Pro-Thr	(SEQ ID NO:5);
Phe-His-Glu-Gln-Trp-Pro-Ser	(SEQ ID NO:6);
His-Glu-Asn-Trp-Pro-Ser	(SEQ ID NO:7);
His-Lvs-Asn-Trp-Pro-Ser	(SEQ ID NO:8);
His-Glu-Asn-Trp-Pro-Ser-Phe	(SEQ ID NO:9);
Phe-His-Lys-Pro-Trp-Arg-Ala	(SEQ ID NO:10);
His-Glu-Asn-Trp-Lys-Ser	(SEQ ID NO:31);
His-Glu-Asn-Trp-Xaa-Ser	(SEQ ID NO:32);
His-Glu-Asn-Trp-Gly-Ser	(SEQ ID NO:34);
His-Glu-Asn-Trp-Glu-Ser	(SEQ ID NO:35);
Phe-His-Glu-Ala-Trp-Pro-Ser	(SEQ ID NO:40);
Phe-His-Glu-Asn-Trp-Xaa-Ser	(SEQ ID NO:43);

His-Glu-Asn-Ala-Pro-Ser	(SEQ ID NO:53);
His-Glu-Asn-Trp-Ser	(SEQ ID NO:54);
G[allyl-] N W G[allyl-]	(SEQ ID NO:55);
NH <sub>2</sub> Grallyl-] N W G[allyl-]	(SEQ ID NO:56);
Ac wn CO <sub>2</sub> H	(SEQ ID NO:57);
Ac NW CO <sub>2</sub> H	(SEQ ID NO:58);
Ac n w CO <sub>2</sub> H	(SEQ IDNO:59);
Ac N W BetaA CO <sub>2</sub> H	(SEQ ID NO:60); and
H E N W P CONH <sub>2</sub>	(SEQ ID NO:61);

and a pharmaceutically acceptable carrier.

15 (withdrawn). A method of manufacturing a medicament for the treatment or prophylaxis of a disease or disorder related to the biological activity of CD23, comprising incorporation of a compound according to Claim 1 in the manufacture of said medicament.

16 (withdrawn). The method according to Claim 15 wherein the disease or disorder is selected from the group consisting of auto-immune diseases, chronic inflammatory diseases and allergies.

17 (withdrawn). The method according to claim 15, wherein said disease or disorder is selected from the group consisting of arthritis, lupus erythematosus, Hashimoto's thyroiditis, multiple sclerosis, diabetes, uveitis, dermatitis, psoriasis,

urticaria, nephrotic syndrome, glomerulonephritis, inflammatory bowel disease, ulcerative colitis, celiac disease, Crohn's disease, Sjogren's syndrome, allergies, allergic asthma, intrinsic asthma, acute asthmatic exacerbation, rhinitis, eczema, endometriosis, graft versus host disease (GVH), chronic obstructive pulmonary disease (COPD), insulinitis, bronchitis (particularly chronic bronchitis), diabetes (particularly type 1 diabetes), B-CLL and other B-cell malignancies, diseases related to B cell malfunctions, and Parkinson's disease.

18 (withdrawn). A method of treatment or prophylaxis of a disease or disorder related to the biological activity of CD23, comprising providing a subject having said disease or disorder and treating said subject with a compound according to Claim 1.

19 (withdrawn). The method according to Claim 18 wherein the disease or disorder is selected from the group consisting of auto-immune diseases, chronic inflammatory diseases and allergies.

20 (withdrawn). The method according to claim 18, wherein said disease or disorder is selected from the group consisting of arthritis, lupus erythematosus, Hashimoto's thyroiditis, multiple sclerosis, diabetes, uveitis, dermatitis, psoriasis, urticaria, nephrotic syndrome, glomerulonephritis, inflammatory bowel disease, ulcerative colitis, celiac disease, Crohn's disease, Sjogren's syndrome, allergies, allergic asthma, intrinsic asthma, acute asthmatic exacerbation, rhinitis, eczema,

endometriosis, graft versus host disease (GVH), chronic obstructive pulmonary disease (COPD), insulinitis, bronchitis (particularly chronic bronchitis), diabetes (particularly type 1 diabetes), B-CLL and other B-cell malignancies, diseases related to B cell malfunctions, and Parkinson's disease.

21 (canceled).

22 (withdrawn).      An isolated polynucleotide encoding a polypeptide of claim 21.

23 (withdrawn).      An isolated polynucleotide of claim 22, having a sequence of SEQ ID NO: 11-20.

24 (withdrawn).      A recombinant polynucleotide comprising a promoter sequence operably linked to a polynucleotide of claim 23.

25 (withdrawn).      A cell transformed with a recombinant polynucleotide of claim 24.

26 (withdrawn).      A transgenic organism comprising a recombinant polynucleotide of claim 24.

27 (withdrawn). A method for producing a polypeptide of claim 21, the method comprising:

- a) transforming a cell with a recombinant polynucleotide, wherein said recombinant polynucleotide comprises a promoter sequence operably linked to a polynucleotide encoding the polypeptide of claim 21;
- b) culturing said cell under conditions suitable for expression of the polypeptide; and
- c) recovering the polypeptide so expressed.

28 (withdrawn). An isolated polynucleotide comprising a sequence selected from the group consisting of:

- a) a polynucleotide comprising a polynucleotide sequence of SEQ ID NO: 11-20;
- b) a polynucleotide having a sequence complementary to a polynucleotide of a); and
- c) an RNA equivalent of a) or b).

29 (withdrawn). A diagnostic test in a biological sample for a condition or disease related to the biological activity of CD23 comprising the steps of:

- a) combining the biological sample with a polypeptide of claim 21, under conditions suitable for the polypeptide to bind CD23 and form a complex; and
- b) detecting the complex, wherein the presence of the complex correlates with the presence of CD23 in the biological sample.

30 (withdrawn). An expression vector comprising a sequence according to claim 22 wherein said vector is capable of expressing said polynucleotide.

31 (withdrawn). A pharmaceutical composition comprising an expression vector according to claim 22 and a pharmaceutically acceptable carrier.

32 (canceled).

33 (withdrawn). A method of detection of CD23 comprising:

- b) treating said sample with a polypeptide of Claim 32; and
- d) detecting the amount of said polypeptide bound to said sample.

34 (withdrawn). The method of Claim 33 wherein said sample comprises a cell.

35-36 (canceled).

37 (withdrawn). The peptidomimetic according to Claim 35, wherein said peptidomimetic is a retroinverted peptide.

38 (withdrawn). The peptidomimetic according to Claim 37, wherein said peptidomimetic comprises the D-amino acid sequence: spwneh.

39 (withdrawn). The peptiomimetic of Claim 35, wherein said peptidomimetic is cyclic.

40 (previously presented). The peptide according to Claim 59 having a specific binding to CD23 of at least about  $10^{-6}$  M.

41 (canceled).

42 (withdrawn). A method of manufacturing a medicament for the treatment or prophylaxis of a disease or disorder related to the biological activity of CD23, comprising incorporation of a compound according to Claim 35 in the manufacture of said medicament.

43 (withdrawn). The method according to Claim 42 wherein the disease or disorder is selected from the group consisting of auto-immune diseases, chronic inflammatory diseases and allergies.

44 (withdrawn). The method according to claim 42, wherein said disease or disorder is selected from the group consisting of arthritis, lupus erythematosus, Hashimoto's thyroiditis, multiple sclerosis, diabetes, uveitis, dermatitis, psoriasis, urticaria, nephrotic syndrome, glomerulonephritis, inflammatory bowel disease, ulcerative colitis, celiac disease, Chron's disease, Sjogren's syndrome, allergies,

allergic asthma, intrinsic asthma, acute asthmatic exacerbation, rhinitis, eczema, endometriosis, graft versus host disease (GVH), chronic obstructive pulmonary disease (COPD), insulinitis, bronchitis (particularly chronic bronchitis), diabetes (particularly type 1 diabetes), B-CLL and other B-cell malignancies, diseases related to B cell malfunctions, and Parkinson's disease.

45 (withdrawn). A method of treatment or prophylaxis of a disease or disorder related to the biological activity of CD23, comprising providing a subject having said disease or disorder and treating said subject with a compound according to Claim 35.

46 (withdrawn). The method according to Claim 45 wherein the disease or disorder is selected from the group consisting of auto-immune diseases, chronic inflammatory diseases and allergies.

47 (withdrawn). The method according to claim 45, wherein said disease or disorder is selected from the group consisting of arthritis, lupus erythematosus, Hashimoto's thyroiditis, multiple sclerosis, diabetes, uveitis, dermatitis, psoriasis, urticaria, nephrotic syndrome, glomerulonephritis, inflammatory bowel disease, ulcerative colitis, celiac disease, Crohn's disease, Sjogren's syndrome, allergies, allergic asthma, intrinsic asthma, acute asthmatic exacerbation, rhinitis, eczema, endometriosis, graft versus host disease (GVH), chronic obstructive pulmonary disease (COPD), insulinitis, bronchitis (particularly chronic bronchitis), diabetes (particularly type 1



diabetes), B-CLL and other B-cell malignancies, diseases related to B cell malfunctions, and Parkinson's disease.

48. (withdrawn). A diagnostic test in a biological sample for a condition or disease related to the biological activity of CD23 comprising the steps of:

- a) combining the biological sample with a peptidomimetic of claims 34, under conditions suitable for the peptidomimetic to bind CD23 and form a complex; and
- b) detecting the complex, wherein the presence of the complex correlates with the presence of CD23 in the biological sample.

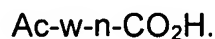
49 (canceled).

50 (withdrawn). A method of detection of CD23 comprising:

- a) providing a sample;
- b) treating said sample with a peptidomimetic of claim 49;
- c) removing said peptidomimetic which is not bound to said sample; and
- d) detecting the amount of said peptidomimetic bound to said sample.

51 (canceled).

52 (withdrawn). A peptidomimetic according to claim 51 comprising the structure



53 (withdrawn). An isolated polynucleotide encoding a polypeptide of claim 51.

54 (withdrawn). A recombinant polynucleotide comprising a promoter sequence operably linked to a polynucleotide of claim 53.

55 (withdrawn). A cell transformed with a recombinant polynucleotide of claim 54.

56 (canceled).

57 (withdrawn). A method of manufacturing a medicament for the treatment or prophylaxis of a disease or disorder related to the biological activity of CD23, comprising incorporation of a polypeptide or peptidomimetic according to Claim 51 in the manufacture of said medicament.

58 (previously presented). The composition according to claim 14 wherein said peptide comprises at least one amino acid which is D-isomer.

59 (previously presented). A CD23-binding peptide, wherein said peptide comprises the amino acid sequence of any one of SEQ ID NOs: 2 to 10, 31, 32, 34, 35, 40, 43 and 53-61.

60 (currently amended). The peptide according to claim 59 comprising at least one amino acid which is a D-isomer, an acylated N-terminus, and acetylated N-terminus or amidated ~~N-terminus~~ C-terminus.

61 (new). The composition according to Claim 14 wherein said peptide comprises an N-terminus and wherein said N-terminus is acylated.

62 (new). The composition according to Claim 61 wherein said N-terminus is acetylated.

63 (new). The composition according to Claim 14 wherein said peptide comprises a C-terminus and wherein said C-terminus is amidated.

64 (new). A peptide of claim 59 wherein said peptide is labeled with a detectable marker.